

METHODS AND COMPOSITIONS FOR IDENTIFYING PROTEIN/NUCLEIC ACID BINDING PAIRS

ABSTRACT OF THE DISCLOSURE

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Methods and compositions for high-throughput identification of protein/nucleic acid binding pairs are provided. In the subject methods, a nucleic acid probe array, e.g., a molecular beacon probe array, is contacted with a target nucleic acid population to produce a hybridized array. The resultant hybridized array is then contacted with a population of proteins to produce a protein bound array. Any resultant array surface bound target nucleic acid/protein complexes are then detected to identify protein/nucleic acid binding pairs. In certain embodiments, the protein and/or nucleic acid members of the identified protein/nucleic acid binding pairs are further characterized. Also provided are systems and kits for use in practicing the subject methods. The subject invention finds use in a variety of different applications.

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